

INDEX FOR VOLUME 100

A

- Absence of Breeding Readiness in Neotropical and Long-distance Migrant Landbirds During Spring Stopover, by Gregory A. Jones and Christopher J. Norment, 373
- Abundance and Distribution of Marbled and Kittlitz's Murrelets in Southcentral and Southeast Alaska, by Beverly A. Agler, Steven J. Kendall and David B. Irons, 254
- Abundance of Diurnal Raptors on Open Space Grasslands in an Urbanized Landscape, by Mark E. Berry, Carl E. Bock and Sandra L. Haire, 601
- Acadian Flycatcher Nest Placement: Does Placement Influence Reproductive Success?, by R. Randy Wilson and Robert J. Cooper, 673
- Accipiter gentilis atricapillus*, 556
- Acoustic Frequencies and Body Mass in New World Doves, by Pablo Luis Tubaro and Bettina Mahler, 54
- Addesa, J., see Berman, S., 574
- Age, 305, 719
- Age effects, 448
- Age-specific mortality, 298
- Agelaius tricolor*, 218
- Agler, Beverly A., Steven J. Kendall and David B. Irons, Abundance and Distribution of Marbled and Kittlitz's Murrelets in Southcentral and Southeast Alaska, 254
- Aix sponsa*, 688
- Alaska, 119, 254, 286, 402
- Aleixo, A., see Pizo, M. A., 726
- Alien species, 468
- Allometry, 27
- Allozymes, 556
- Ambient temperature, 168
- American Avocet, 266, 589
- American Bird Conservancy's Guide to All the Birds of North America: A Revolutionary System Based on Feeding Behaviors and Field Features*, by Jack L. Griggs, reviewed by Michael Mlodinow, 772
- American Dipper, 385
- American Redstart, 389
- Anders, A. D., see Dearborn, D. C., 326
- Anderson, S. H., see Gutzwiller, K. J., 519
- Andes, 629
- Antarctic Shag, 112
- Antarctica, 112
- Aphelocoma coerulescens*, 753
- Arctander, P., see García-Moreno, J., 629
- Arrival mass, 8
- Arrival Time From Spring Migration in Male Pied Flycatchers: Individual Consistency and Familial Resemblance, by Jaime Potti, 702
- Artificial nest, 357, 395
- Ashy Storm-petrel, 438
- Atlantic forest, 726
- Atlas of the Breeding Birds of Maryland and the District of Columbia*, edited by Chandler S. Rob-

bins and Eirik A. T. Blom, reviewed by David A. Wiedenfeld, 773

- Attu Island, 162
- Avian disease, 468
- Avian research, 764
- Avifauna structure, 413
- Aythya americana*, 62
- Azure-winged Magpies Avoid Nest Predation By Nesting Near a Japanese Lesser Sparrowhawk's Nest, by Mutsuyuki Ueta, 400

B

- Bahama Islands, 201
- Bahat, Ofer, Itzhak Choshniak and David C. Houston, Nocturnal Variation in Body Temperature of Griffon Vultures, 168
- Bald Eagle, 745
- Baltz, Michael E., and Dirk E. Burhans, Rejection of Artificial Parasite Eggs by Gray Kingbirds in the Bahamas, 566
- Barber, Patricia M., Thomas E. Martin and Kimberly G. Smith, Pair Interactions in Red-faced Warblers, 512
- Barbraud, Christophe, and Olivier Chastel, Southern Fulmars Molt Their Primary Feathers While Incubating, 563
- Barrera-Oro, E., see Favero, M., 112
- Baskett, T. S., see Griffin, C. R., 654
- Bates, John M., A review of *Handbook of Birds of the World, Vol. 4: Sandgrouse to Cuckoos*, edited by J. del Hoyo, A. Elliot, and J. Sargatal, 769
- Beauchamp, Guy, The Relationship Between Intra- and Interspecific Brood Amalgamation in Waterfowl, 153
- Begging behavior, 326
- Behavior of Migrant Shorebirds in Playas of the Southern High Plains, Texas, by Craig A. Davis and Loren M. Smith, 266
- Behavioral exploitation, 400
- Bell Miner, 343
- Benkman, Craig W., A review of *Made for Each Other: A Symbiosis of Birds and Pines*, by Ronald M. Lanner, 190
- Berman, Susan, Jill Addesa, Robert Hannigan, Vincent Restivo and Joseph Rodrigues, Intraspecific Variation in the Hindlimb Musculature of the Northern Flicker, 574
- Berry, Mark E., Carl E. Bock and Sandra L. Haire, Abundance of Diurnal Raptors on Open Space Grasslands in an Urbanized Landscape, 601
- Bioacoustics, 504
- Biodiversity, 413, 764
- Biogeography, 629
- Bird Abundance and Diversity Along an Urban-Rural Gradient: A Comparative Study Between Two Cities on Different Continents, by Philippe Clergeau, Jean-Pierre L. Savard, Gwenalle Mennechez and Gilles Falardeau, 413
- Bird disturbance, 519
- Bird Tolerance to Human Intrusion in Wyoming Mon-

- tane Forests, by Kevin J. Gutzwiller, Heidi A. Marcum, Henry B. Harvey, James D. Roth and Stanley H. Anderson, 519
- Bird-ungulate interactions, 177
- Birds in the Bushes: A Story About Margaret Morse Nice*, by Julie Dunlap, reviewed by Janis L. Dickinson, 583
- Birdsong, 504
- Bishop, M. A., see Warnock, N., 456
- Black Brant, 164, 426
- Black-billed Magpie, 177
- Black-legged Kittiwakes, 709
- Black-throated Green Warbler, 474
- Boag, P. T., see Conrad, K. F., 343
- Boats, 528
- Bock, C. E., see Berry, M. E., 601
- Body composition, 579
- condition, 385, 456
- core temperature, 168
- mass, 62
- Boersma, P. Dee, Population Trends of the Galápagos Penguin: Impacts of El Niño and La Niña, 245
- Boersma, P. D., see Stokes, D. L., 376
- Boyd, W. S., see Robertson, G. J., 551
- Brachyramphus marmoratus*, 254, 286
- Brambling, 162
- Branta bernicla*, 164
- Breast muscle, 316
- Breeding, 541, 563, 654
- experience, 8
- frequency, 448
- record, 162
- schedule, 218
- Breeding Biology and Territoriality of the Hawaii Creeper, by Eric A. VanderWerf, 541
- Breeding Ecology and Behavior of The Hawaiian Hawk, by Curtice R. Griffin, Peter W. C. Paton and Thomas S. Baskett, 654
- Brittingham, M. C., see Wilson, G. R., 357
- Brood parasitism, 1, 93, 102, 326, 566, 663, 680
- Brood Parasitism by Brown-headed Cowbirds on Brown Thrashers: Frequency and Rates of Rejection, by Carola A. Haas and Katherine H. Haas, 535
- Brooks, Thomas, A review of *Endemic Bird Areas of the World: Priorities for Biodiversity Conservation*, by Alison J. Stattersfield, Michael J. Crosby, Adrian J. Long, and David C. Wege, 770
- Brown, Bryan T., Lawrence E. Stevens and Teresa A. Yates, Influences of Fluctuating River Flows on Bald Eagle Foraging Behavior, 745
- Brown Skua, 335
- Brown-headed Cowbird, 1, 93, 102, 535
- Bräger, Stefan, Feeding Associations Between White-fronted Terns and Hector's Dolphins in New Zealand, 560
- Bucephala clangula*, 694
- Burger, Joanna, Effects of Motorboats and Personal Watercraft on Flight Behavior Over a Colony of Common Terns, 528
- Burhans, D. E., see Baltz, M. E., 566
- Burhans, Dirk E., and Frank R. Thompson III, Effects of Time and Nest-Site Characteristics on Concealment of Songbird Nests, 663
- Buteo poeclilochrous*, 27
- polyosoma*, 27
- solitarius*, 654
- Buteo polyosoma* and *B. poeclilochrous*, the "Red-backed Buzzards" of South America, Are Conspecific, by C. Craig Farquhar, 27

C

- Calcium, 568
- Calidris mauri*, 456
- California, 227
- Calls, 145
- Canada, 413
- Captivity, 719
- Carbon-13, 119
- Cardellina rubrifrons*, 512, 741
- Cardinalis cardinalis*, 504, 663
- Caribbean pine, 201
- Carpodacus mexicanus*, 493
- Casaux, R., see Favero, M., 112
- Cassin's Auklets, 546
- Catharacta lonnbergi*, 335
- skua*, 448
- Catry, Paulo, Richard A. Phillips, Keith C. Hamer, Norman Ratcliffe and Robert W. Furness, The Incidence of Nonbreeding by Adult Great Skuas and Parasitic Jaegers from Foula, Shetland, 448
- Cavity-nesting, 694
- Ceballos, O., see Dobado-Berrios, P. M., 719
- Censusing, 589
- Central Valley, 227
- Cephalorhynchus hectori*, 560
- Certhia brachydactyla*, 174
- familiaris*, 174
- Changes in the Distribution and Abundance of Waved Albatrosses at Isla Española, Galápagos Islands, Ecuador, by Hector D. Douglas III, 737
- Charadrius montanus*, 382
- Chastel, O., see Barbraud, C., 563
- Chatham Islands, 335
- Chen caerulescens atlantica*, 316
- canagica*, 402
- Chick-provisioning, 131
- Choshniak, I., see Bahat, O., 168
- Cicero, C., see Johnson, N. K., 18
- Cinclus mexicanus*, 385
- Clarke, M. F., see Conrad, K. F., 343
- Clergeau, Philippe, Jean-Pierre L. Savard, Gwenalle Mennechez and Gilles Falardeau, Bird Abundance and Diversity Along an Urban-Rural Gradient: A Comparative Study Between Two Cities on Different Continents, 413
- Clutch size, 654
- Cobley, N. D., and P. A. Prince, Factors Affecting Primary Molt in the Gray-headed Albatross, 8
- Coevolution, 389
- Colaptes auratus*, 574
- Collopy, Michael W., A review of *The Golden Eagle*, by Jeff Watson, 774
- Coloniality in the Cliff Swallow*, by Charles R. Brown and Mary Bomberger Brown, reviewed by Michael P. Lombardo, 188

- Colorado River, 745
 Colorimetry, 18
Columba livia, 298, 579
 Common Goldeneye, 694
 Murre, 172
 Terns, 528
 Communal breeding, 343
 Communication, 145
 Comparative ecology, 153
 Competition for Food in Urban Pigeons: The Cost of
 Being Juvenile, by Daniel Sol, David M. Santos,
 Josep Garcia and Mariano Cuadrado, 298
 Congdon, J. D., see Hinton, T. G., 579
 Conrad, Kelvin F., Michael F. Clarke, Raleigh J. Rob-
 ertson and Peter T. Boag, Paternity and the Re-
 latedness of Helpers in the Cooperatively
 Breeding Bell Miner, 343
 Conservation, 589, 601, 764
 biology, 18
 Cooch, E. G., see Reed, E. T., 426
 Cooke, F., see Reed, E. T., 426
 Cooke, F., see Robertson, G. J., 551
 Cooper, R. J., see Wilson, R. R., 673
 Cooperative breeding, 335, 343
 Copulation, 141
 Coria, N., see Favero, M., 112
 Correlates of Creeping Speed Variability in Two Species
 of Treecreepers, by Tomasz S. Osiejuk, 174
 Cowbird parasitism, 357
 Coyle, K. O., see Ostrand, W. D., 286
 Creekmere, L. H., see Hollmén, T. E., 402
 Csermely, Davide, and Giorgia Gaibani, Is Foot
 Squeezing Pressure by Two Raptor Species Suf-
 ficient to Subdue Their Prey?, 757
 Cuadrado, M., see Sol, D., 298
- D**
- Daily energy expenditure, 546
 Daily temperature variation, 168
 Dallman, M., see Smith, R., 474
 Davis, Craig A., and Loren M. Smith, Behavior of Mi-
 grant Shorebirds in Playas of the Southern High
 Plains, Texas, 266
 Davis, L. S., see Stokes, D. L., 376
 Dearborn, Donald C., Angela D. Anders, Frank R.
 Thompson III and John Faaborg, Effects of
 Cowbird Parasitism on Parental Provisioning
 and Nestling Food Acquisition and Growth, 326
 Demography of an Introduced Red-billed Leiothrix
 Population in Hawaii, by C. John Ralph, Steven
 G. Fancy and Tim D. Male, 468
Dendroica kirtlandii, 201
 petechia, 102
 virens, 474
 Density and Roost Site Characteristics of Spotted Owls
 in the Sierra Madre Occidental, Chihuahua,
 Mexico, by Kendal E. Young, Raul Valdez,
 Phillip J. Zwank and William R. Gould, 732
 Dickinson, Janis L., A review of *Birds in the Bushes:*
 A Story About Margaret Morse Nice, by Julie
 Dunlap, 583
 Diet, 112, 119, 131, 654
 Differences in Diet and Chick Provisioning Between

- Adult Roseate and Sandwich Terns in Puerto
 Rico, by David A. Shealer, 131
 Digestive tract, 316
Diomedea chrysostoma, 8
 Discriminant analysis, 350
 Dispersal From Natal Territories and the Origin of Co-
 operatively Polyandrous Breeding Groups in the
 Brown Skua, by E. C. Young, 335
 Distribution, 254
 Distribution, Relative Abundance, and Habitat Rela-
 tionships of Landbirds in the Vava'u Group,
 Kingdom of Tonga, by David W. Steadman and
 Holly B. Freifeld, 609
 DNA fingerprinting, 343
 Dobado-Berrios, Pablo M., José L. Tella, Olga Cebal-
 los and José A. Donazar, Effects of Age and
 Captivity on Plasma Chemistry Values of the
 Egyptian Vulture, 719
 Dobbs, Robert C., and Thomas E. Martin, Variation in
 Foraging Behavior Among Nesting Stages of
 Female Red-faced Warblers, 741
 Dodenhoff, D. J., see Stark, R. D., 350
 Donnelly, Roarke E., and Kimberly A. Sullivan, For-
 aging Proficiency and Body Condition of Ju-
 venile American Dippers, 385
 Donazar, J. A., see Dobado-Berrios, P. M., 719
 Doubly-labeled water, 546
 Douglas, Hector D., Changes in the Distribution and
 Abundance of Waved Albatrosses at Isla Espa-
 ñola, Galápagos Islands, Ecuador, 737
 Drew, G. S., see Ostrand, W. D., 286, 709
 Drumming, 350
 Dusky-footed woodrat, 79
 Dutta, Chaitali, L. Scott Johnson, David Larkin and
 Luz P. Mangurian, Skeletal Development at the
 Time of Fledging in House Wrens, 568

E

- Eagles, 601
 Early sperm release, 373
*Ecology and Management of Neotropical Migratory
 Birds: A Synthesis and Review of Critical Is-
 sues*, edited by Thomas E. Martin and Deborah
 M. Finch, reviewed by Paul B. Hamel, 189
 Effect of Hatching Date on Body and Organ Devel-
 opment in Greater Snow Goose Goslings, by
 Louis Lesage and Gilles Gauthier, 316
 Effect of Implanted Satellite Transmitters on the Nest-
 ing Behavior of Murres, by Paul M. Meyers,
 Scott A. Hatch and Daniel M. Mulcahy, 172
 Effects of Age and Captivity on Plasma Chemistry
 Values of the Egyptian Vulture, by Pablo M.
 Dobado-Berrios, José L. Tella, Olga Ceballos
 and José A. Donazar, 719
 Effects of Cowbird Parasitism on Parental Provision-
 ing and Nestling Food Acquisition and Growth,
 by Donald C. Dearborn, Angela D. Anders,
 Frank R. Thompson III and John Faaborg, 326
 Effects of Mate Removal on Incubation Behavior and
 Reproductive Success of Female Wood Ducks,
 by Chad A. Manlove and Gary R. Hepp, 688
 Effects of Motorboats and Personal Watercraft on
 Flight Behavior Over a Colony of Common
 Terns, by Joanna Burger, 528

- Effects of Time and Nest-Site Characteristics on Concealment of Songbird Nests, by Dirk E. Burhans and Frank R. Thompson III, 663
- Egg ejection, 566
recognition, 535
rejection, 535
remains, 395
- Egyptian Vulture, 719
- Eichholz, Michael W., and James S. Sedinger, Factors Affecting Duration of Incubation in Black Brant, 164
- El Niño, 245
- Elekonich, Michelle M., Song Sparrow Males Use Female-Typical Vocalizations in Fall, 145
- Embryonic communication, 102
- Emperor Geese, 402
- Empidonax virescens*, 673
- Endangered species, 609
- Endangered subspecies, 18
- Endemic Bird Areas of the World: Priorities for Biodiversity Conservation*, by Alison J. Stattersfield, Michael J. Crosby, Adrian J. Long, and David C. Wege, reviewed by Thomas Brooks, 770
- Energetic requirements, 79
- Energy Expenditure and Food Requirement of Cassin's Auklets Provisioning Nestlings, by Peter J. Hodum, William J. Sydeman, G. Henk Visser and Wesley W. Weathers, 546
- Evaluation of Radio-Tracking and Strip Transect Methods for Determining Foraging Ranges of Black-legged Kittiwakes, by William D. Ostrand, Gary S. Drew, Robert M. Suryan and Lyman L. McDonald, 709
- An Evaluation of Whole Body Potassium-40 Content for Estimating Lean and Fat Mass in Pigeons, by T. G. Hinton, James A. Gessaman, Roy D. Nagle and Justin D. Congdon, 579
- Evaporative water loss, 493
- Ewert, D., see Smith, R., 474
- Extra-pair copulations, 556
fertilization, 556

F

- Faaborg, J., see Dearborn, D. C., 326
- Factors Affecting Duration of Incubation in Black Brant, by Michael W. Eichholz and James S. Sedinger, 164
- Factors Affecting Nutritional Condition of Fledgling Florida Scrub-Jays: A Ptilochronology Approach, by Thomas C. Grubb Jr., Glen E. Woolfenden and John W. Fitzpatrick, 753
- Factors Affecting Primary Molt in the Gray-headed Albatross, by N. D. Cobley and P. A. Prince, 8
- Falardeau, G., see Clergeau, P., 413
- Falcons, 601
- Fallow deer, 177
- Fancy, S. G., see Ralph, C. J., 468
- Farquhar, C. Craig, *Buteo polyosoma* and *B. poecilochrous*, the "Red-backed Buzzards" of South America, Are Conspecific, 27
- Favero, Marco, Ricardo Casaux, Patricia Silva, Esteban Barrera-Oro and Nestor Coria, The Diet of the Antarctic Shag During Summer at Nelson Island, Antarctica, 112
- Feeding Associations Between White-fronted Terns and Hector's Dolphins in New Zealand, by Stefan Bräger, 560
- Female-typical calls, 145
- Ficedula hypoleuca*, 702
- Field metabolic rate, 546
- First Breeding Records of Whooper Swan and Brambling in North America at Attu Island, Alaska, by Paul W. Sykes Jr. and David W. Sonneborn, 162
- First egg date, 164
- Fish, 112
- Fitzpatrick, J. W., see Grubb, T. C., 753
- Fjeldsø, J., see García-Moreno, J., 629
- Fledging, 568
- Fledging dispersal, 69
survivorship, 753
- Flocking, 641
- Florida Scrub-Jay, 753
- Fluctuating river flows, 745
- Follower species, 44
- Food consumption, 546
deprivation, 168
habits, 382
- Foods of Mountain Plovers Wintering in California, by Fritz L. Knopf, 382
- Foraging, 286, 298, 385
behavior, 174, 277, 474, 741, 745
ecology, 119
- Foraging Proficiency and Body Condition of Juvenile American Dippers, by Roarke E. Donnelly and Kimberly A. Sullivan, 385
- Forest birds, 609
- Forest Fragmentation Affects the Behavioral Response of American Redstarts to the Threat of Cowbird Parasitism, by Keith A. Hobson and Marc-André Villard, 389
- Fowler, A. C., see Hollmén, T. E., 402
- France, 413
- Franson, J. C., see Hollmén, T. E., 402
- Fratercula cirrhata*, 286
- Free-living, 719
- Freifeld, H. B., see Steadman, D. W., 609
- Fulmarus glacialis*, 141
glacialoides, 563
- Furness, R. W., see Catry, P., 448

G

- Gaibani, G., see Csermely, D., 757
- Galápagos Islands, 245, 277
- Galápagos Penguins, 245, 277
- Gallus gallus*, 749
- Garcia, J., see Sol, D., 298
- García-Moreno, Jaime, Peter Arctander and Jon Fjeldsø, Pre-Pleistocene Differentiation among Chatyrants, 629
- Gauthier, G., see Lesage, L., 316
- Gavin, Thomas A., Richard T. Reynolds, Suzanne M. Joy, Douglas Leslie and Bernie May, Genetic Evidence for Low Frequency of Extra-Pair Fertilizations in Northern Goshawks, 556
- Geese, 119

- Genetic Evidence for Low Frequency of Extra-Pair Fertilizations in Northern Goshawks, by Thomas A. Gavin, Richard T. Reynolds, Suzanne M. Joy, Douglas Leslie and Bernie May, 556
- Genov, Peter V., Paola Gigantesco and Giovanna Massei, Interactions Between Black-billed Magpie and Fallow Deer, 177
- Geographic, Temporal, and Age-Specific Variation in Diets of Glaucous Gulls in Western Alaska, by Joel A. Schmutz and Keith A. Hobson, 119
- Gessaman, J. A., see Hinton, T. G., 579
- Gigantesco, P., see Genov, P. V., 177
- Gilardi, James D., and Charles A. Munn, Patterns of Activity, Flocking, and Habitat Use in Parrots of the Peruvian Amazon, 641
- Glaucous Gull, 119
- Global climate change, 245
- Gonadal recrudescence, 373
- Goodrich, L. J., see Wilson, G. R., 357
- Goudie, R. I., see Reed, E. T., 426
- Goudie, R. I., see Robertson, G. J., 551
- Gough, G. A., see Nisbet, I. C. T., 305
- Gould, W. R., see Young, K. E., 732
- Gram, Wendy K., Winter Participation by Neotropical Migrant and Resident Birds in Mixed-species Flocks in Northeastern Mexico, 44
- Grasslands, 601
- Gray Kingbird, 566
- Gray-headed Albatross, 8
- Gray-hooded Flycatcher, 726
- Great Basin, 589
- Great Skuas, 448
- Greater Snow Goose, 316
- Green Hermits, 149
- Greene, E., see Weathers, W. W., 365
- Griffin, Curtice R., Peter W. C. Paton and Thomas S. Baskett, Breeding Ecology and Behavior of The Hawaiian Hawk, 654
- Griffon Vulture, 168
- Growth, 316, 568
- Grubb, Thomas C., Glen E. Woolfenden and John W. Fitzpatrick, Factors Affecting Nutritional Condition of Fledgling Florida Scrub-Jays: A Ptilochronology Approach, 753
- Gutiérrez, R. J., see Ward, J. P., 79
- Gutzwiller, Kevin J., Heidi A. Marcum, Henry B. Harvey, James D. Roth and Stanley H. Anderson, Bird Tolerance to Human Intrusion in Wyoming Montane Forests, 519
- Gyps fulvus*, 168
- ## H
- Haas, C. A., see Vega, J. H., 69
- Haas, Carola A., and Katherine H. Haas, Brood Parasitism by Brown-headed Cowbirds on Brown Thrashers: Frequency and Rates of Rejection, 535
- Haas, K. H., see Haas, C. A., 535
- Habitat, 732
- Habitat restoration, 93
- selection, 79, 673
- structure, 93
- use, 69, 227, 641, 709, 745
- Habitat Selection by Northern Spotted Owls: The Consequences of Prey Selection and Distribution, by James P. Ward Jr., R. J. Gutiérrez and Barry R. Noon, 79
- Haig, S. M., see Warnock, N., 589
- Haire, S. L., see Berry, M. E., 601
- Haliaeetus leucocephalus*, 745
- Hamas, M., see Smith, R., 474
- Hamel, Paul B., A review of *Ecology and Management of Neotropical Migratory Birds: A Synthesis and Review of Critical Issues*, edited by Thomas E. Martin and Deborah M. Finch, 189
- Hamer, K. C., see Catry, P., 448
- Hamilton, William J., III, Tricolored Blackbird Itinerant Breeding in California, 218
- Handbook of Birds of the World. Vol 3: Hoatzin to Auks*, edited by Josep del Hoyo, Andrew Elliott, and Jordi Sargatal, reviewed by J. R. Jehl Jr., 405
- Handbook of Birds of the World. Vol. 4: Sandgrouse to Cuckoos*, edited by J. del Hoyo, A. Elliot, and J. Sargatal, reviewed by John M. Bates, 769
- Haney, J. Christopher, David S. Lee and Martha Walsh-McGehee, A Quantitative Analysis of Winter Distribution and Habitats of Kirtland's Warblers in the Bahamas, 201
- Hannigan, R., see Berman, S., 574
- Harbison, H., see MacDougall-Shackleton, E., 149
- Harlequin Duck, 551
- Harvey, H. B., see Gutzwiller, K. J., 519
- Hatch, S. A., see Meyers, P. M., 172
- Hatching date, 316
- Hatfield, J. S., see Nisbet, I. C. T., 305
- Hawaii, 468, 541
- Hawaii Creeper, 541
- Hawaiian Hawk, 654
- Hawks, 601
- Heat stress, 365
- Hector's dolphin, 560
- Helping behavior, 343
- Hematocrit, 749
- Hepp, G. R., see Manlove, C. A., 688
- Heritability, 702
- Hindlimb musculature, 574
- Hinds, D. S., see MacMillen, R. E., 493
- Hinton, T. G., James A. Gessaman, Roy D. Nagle and Justin D. Congdon, An Evaluation of Whole Body Potassium-40 Content for Estimating Lean and Fat Mass in Pigeons, 579
- Histrionicus histrionicus*, 551
- Hobson, K. A., see Schmutz, J. A., 119
- Hobson, Keith A., and Marc-André Villard, Forest Fragmentation Affects the Behavioral Response of American Redstarts to the Threat of Cowbird Parasitism, 389
- Hodum, Peter J., William J. Sydeman, G. Henk Visser and Wesley W. Weathers, Energy Expenditure and Food Requirement of Cassin's Auklets Provisioning Nestlings, 546
- Hollmén, Tuula E., J. Christian Franson, Lynn H. Creekmore, Joel A. Schmutz and Ada C. Fowler, *Leucocytozoon simondi* in Emperor Geese from the Yukon-Kuskokwim Delta in Alaska, 402
- Honeyeaters, 343

Hooded Merganser, 694
 Host behavior, 535
 Host-parasite interactions, 389
 House Finch, 493
 Wren, 568

Houston, D. C., see Bahat, O., 168

How Well Do Artificial Nests Estimate Success of Real Nests?, by Gina R. Wilson, Margaret C. Brittingham and Laurie J. Goodrich, 357

Human impact, 745
 intrusion, 519

Hunter, F. M., Timing of Pair and Extra-Pair Copulations in the Northern Fulmar, 141

Hybridization, 1

Hylocichla mustelina, 69, 357

I

Immunocompetence, 749

Implantation, 172

Implanted transmitters, 168

Incubation, 688

 constancy, 62
 period, 102, 164

Indigo Bunting, 326

Influence of Gambel Oak on Breeding Birds in Ponderosa Pine Forests of Northern Arizona, by Steven S. Rosenstock, 485

Influences of Fluctuating River Flows on Bald Eagle Foraging Behavior, by Bryan T. Brown, Lawrence E. Stevens and Teresa A. Yates, 745

Initiation date, 164

Interactions Between Black-billed Magpie and Fallow Deer, by Peter V. Genov, Paola Gigantesco and Giovanna Massei, 177

Interspecific brood amalgamation, 153

Intraspecific brood amalgamation, 153

Intraspecific Variation in the Hindlimb Musculature of the Northern Flicker, by Susan Berman, Jill Adessa, Robert Hannigan, Vincent Restivo and Joseph Rodrigues, 574

Intrusion tolerance, 519

Irons, D. B., see Agler, B. A., 254

Irons, D. B., see Ostrand, W. D., 286

Is Foot Squeezing Pressure by Two Raptor Species Sufficient to Subdue Their Prey?, by Davide Csermely and Giorgia Gaibani, 757

Island biogeography, 609

Itinerant breeding, 218

J

Jehl, J. R., Jr., A review of *Handbook of Birds of the World. Vol 3: Hoatzin to Auks*, edited by Josep del Hoyo, Andrew Elliott, and Jordi Sargatal, 405

Johnsen, Torgeir S., and Marlene Zuk, Parasites, Morphology, and Blood Characters in Male Red Jungle Fowl During Development, 749

Johnson, E. V., see Stark, R. D., 350

Johnson, L. S., see Dutta, C., 568

Johnson, Ned K., J. V. Remsen Jr. and Carla Cicero, Refined Colorimetry Validates Endangered Subspecies of the Least Tern, 18

Johnston, Richard F., A review of *The Zebra Finch*, by Richard A. Zann, 187

Jones, Gregory A., and Christopher J. Norment, Ab-

sence of Breeding Readiness in Neotropical and Long-distance Migrant Landbirds During Spring Stopover, 373

Joy, S. M., see Gavin, T. A., 556

Juvenile, 385

 movements, 69

K

Kendall, S. J., see Agler, B. A., 254

Kennedy, Patricia L., A review of *Raptors in Human Landscapes: Adaptations to Built and Cultivated Environments*, edited by David M. Bird, Daniel E. Varland, and Juan J. Negro, 584

Kirtland's Warbler, 201

Kittlitz's Murrelet, 254

Kjelmyr, J. E., see Shuford, W. D., 227

Kleptoparasitism, 541

Knopf, Fritz L., Foods of Mountain Plovers Wintering in California, 382

L

La Niña, 245

Lake Huron, 474

Landscape, 601

 ecology, 413
 fragmentation, 389

Larison, Brenda, Stephen A. Laymon, Pamela L. Williams and Thomas B. Smith, Song Sparrows vs. Cowbird Brood Parasites: Impacts of Forest Structure and Nest-Site Selection, 93

Larkin, D., see Dutta, C., 568

Larus hyperboreus, 119

Late seral forest, 79

Laymon, S. A., see Larison, B., 93

Lean mass, 579

Least Tern, 18, 180

Lee, D. S., see Haney, J. C., 201

Leiothrix lutea, 468

Lek behavior, 149

Lek Behavior of the Gray-hooded Flycatcher, by Marco Aurélio Pizo and Alexandre Aleixo, 726

Lesage, Louis, and Gilles Gauthier, Effect of Hatching Date on Body and Organ Development in Greater Snow Goose Goslings, 316

Leslie, D., see Gavin, T. A., 556

Leucocytosoon simondi in Emperor Geese from the Yukon-Kuskokwim Delta in Alaska, by Tuula E. Hollmén, J. Christian Franson, Lynn H. Creekmore, Joel A. Schmutz and Ada C. Fowler, 402

Lichtenstein, Gabriela, Parasitism by Shiny Cowbirds of Rufous-Bellied Thrushes, 680

Lipids, 579

Little Tern, 180

Local survival, 426

Lombardo, Michael P., A review of *Coloniality in the Cliff Swallow*, by Charles R. Brown and Mary Bomberger Brown, 188

Lophodytes cucullatus, 694

M

MacDougall-Shackleton, Elizabeth, and Heidi Harbison, Singing Behavior of Lekking Green Hermits, 149

MacMillen, Richard E., and David S. Hinds, Water

- Economy of Granivorous Birds: California House Finches, 493
- Made for Each Other: A Symbiosis of Birds and Pines*, by Ronald M. Lanner, reviewed by Craig W. Benkman, 190
- Magellanic Penguin, 376
- Mahler, B., see Tubaro, P. L., 54
- Male, T. D., see Ralph, C. J., 468
- Mallory, Mark L., Donald K. McNicol, Russell A. Walton and Mark Wayland, Risk-taking by Incubating Common Goldeneyes and Hooded Mergansers, 694
- Mangurian, L. P., see Dutta, C., 568
- Maniscalco, J. M., see Ostrand, W. D., 286
- Manlove, Chad A., and Gary R. Hepp, Effects of Mate Removal on Incubation Behavior and Reproductive Success of Female Wood Ducks, 688
- Manorina melanophrys*, 343
- Marbled Murrelet, 254, 286
- Marcum, H. A., see Gutzwiller, K. J., 519
- Marini, Miguel Á., and Celine Melo, Predators of Quail Eggs, and the Evidence of the Remains: Implications for Nest Predation Studies, 395
- Mark-resight, 426
- Martin, T. E., see Barber, P. M., 512
- Martin, T. E., see Dobbs, R. C., 741
- Marzluff, John M., A review of *The Raven, A Natural History in Britain and Ireland*, by Derek Ratcliffe, 185
- Massei, G., see Genov, P. V., 177
- Massey, Barbara W., Species and Subspecies Limits in Least Terns, 180
- Mate guarding, 512
removal, 688
- Mating system, 556
- May, B., see Gavin, T. A., 556
- McChesney, G. J., see Sydeman, W. J., 438
- McDonald, L. L., see Ostrand, W. D., 709
- McLaren, E. B., see Sydeman, W. J., 438
- McMaster, D. Glen, and Spencer G. Sealy, Short Incubation Periods of Brown-headed Cowbirds: How Do Cowbird Eggs Hatch Before Yellow Warbler Eggs?, 102
- McNicol, D. K., see Mallory, M. L., 694
- McShea, W. J., see Vega, J. H., 69
- Melo, C., see Marini, M. Á., 395
- Melospiza melodia*, 93, 145
- Mennechez, G., see Clergeau, P., 413
- Metabolic water production, 493
- Mexican Spotted Owl, 732
- Mexico, 44, 180
- Meyers, Paul M., Scott A. Hatch and Daniel M. Mulcahy, Effect of Implanted Satellite Transmitters on the Nesting Behavior of Murres, 172
- Michigan, 474
- Migration, 218, 376, 474, 702
- Mills, Kyra L., Multispecies Seabird Feeding Flocks in the Galápagos Islands, 277
- Mionectes rufiventris*, 726
- Mixed-species flock, 44
- Modinow, Michael, A review of *American Bird Conservancy's Guide to All the Birds of North America: A Revolutionary System Based on*

- Feeding Behaviors and Field Features*, by Jack L. Griggs, 772
- Modinow, Michael, A review of *Southern Illinois Birds: An Annotated List and Site Guide*, by W. Douglas Robinson, 409
- Molothrus ater*, 1, 93, 102, 326, 357, 389, 535
bonariensis, 566
- Molt, 563
- Monitoring Species Richness and Abundance of Shorebirds in the Western Great Basin, by Nils Warnock, Susan M. Haig and Lewis W. Oring, 589
- Montane forest, 519
- Morphological Differentiation of Brown-headed Cowbirds in the Okanagan Valley, British Columbia, by David Ward and James N. M. Smith, 1
- Morphology, 1, 574
- Mountain Plover, 382
- mtDNA, 629
- Mulcahy, D. M., see Meyers, P. M., 172
- Multispecies Seabird Feeding Flocks in the Galápagos Islands, by Kyra L. Mills, 277
- Munn, C. A., see Gilardi, J. D., 641

N

- Nagle, R. D., see Hinton, T. G., 579
- Natal dispersal, 335
- ND2, 629
- Neophron percnopterus*, 719
- Neotropical migrant, 44, 373
- Neotropics, 764
- Nest attentiveness, 164
concealment, 663
defense, 389, 694
placement, 673
predation, 357, 663
success, 654, 673
- Nest site selection, 663
variability, 541
- Nesting behavior, 172
stage, 741
- Nestling growth, 326
- New World Doves, 54
- Nisbet, Ian C. T., Jeffrey A. Spendlow, Jeff S. Hatfield, James M. Zingo and Greg A. Gough, Variations in Growth of Roseate Tern Chicks: II. Early Growth as an Index of Parental Quality, 305
- Nitrogen-15, 119
- Nocturnal Variation in Body Temperature of Griffon Vultures, by Ofer Bahat, Itzhak Choshniak and David C. Houston, 168
- Nonbreeding behavior, 641
season, 44
- Noon, B. R., see Ward, J. P., 79
- Norment, C. J., see Jones, G. A., 373
- Northern Cardinal, 504
- Northern Flicker, 574
- Northern Fulmar, 141
- Northern Goshawk, 556
- Northern Spotted Owl, 79
- Nuclear species, 44

- Nudds, Thomas D., A review of *The Snow Geese of La Perouse Bay: Natural Selection in the Wild*, by Fred Cooke, Robert F. Rockwell, and David B. Lank, 585
 Nur, N., see Sydesman, W. J., 438
 Nutritional condition, 753

O

- Ochthoeca*, 629
 Open oak scrub, 753
 Open space, 601
 Optimal foraging hypotheses, 174
Oreomystis mana, 541
 Organ development, 316
 Oring, L. W., see Warnock, N., 589
 Ornaments, 749
 Osiejuk, Tomasz S., Correlates of Creeping Speed Variability in Two Species of Treecreepers, 174
 Ostrand, William D., Gary S. Drew, Robert M. Suryan and Lyman L. McDonald, Evaluation of Radio-Tracking and Strip Transect Methods for Determining Foraging Ranges of Black-legged Kittiwakes, 709
 Ostrand, William D., Kenneth O. Coyle, Gary S. Drew, John M. Maniscalco and David B. Irons, Selection of Forage-Fish Schools by Murrelets and Tufted Puffins in Prince William Sound, Alaska, 286

P

- Pacific Flyway, 456
 Page, G. W., see Shuford, W. D., 227
 Pair bonds, 688
 formation, 551
 reunion, 551
 Pair Interactions in Red-faced Warblers, by Patricia M. Barber, Thomas E. Martin and Kimberly G. Smith, 512
 Parasites, Morphology, and Blood Characters in Male Red Jungle Fowl During Development, by Torgeir S. Johnsen and Marlene Zuk, 749
 Parasitic Jaegers, 448
 Parasitism by Shiny Cowbirds of Rufous-Bellied Thrushes, by Gabriela Lichtenstein, 680
 Parental provisioning, 326
 Parrots, 641
Passerina cyanea, 326, 663
 Paternity and the Relatedness of Helpers in the Cooperatively Breeding Bell Miner, by Kelvin F. Conrad, Michael F. Clarke, Raleigh J. Robertson and Peter T. Boag, 343
 Paton, P. W. C., see Griffin, C. R., 654
 Patterns and Dynamics of Shorebird Use of California's Central Valley, by W. David Shuford, Gary W. Page and Janet E. Kjelson, 227
 Patterns of Activity, Flocking, and Habitat Use in Parrots of the Peruvian Amazon, by James D. Gialardi and Charles A. Munn, 641
 Penguins, 376
 Personal watercraft, 528
Phaethornis guy, 149
Phalacrocorax bransfieldensis, 112
 Phillips, R. A., see Catry, P., 448
 Philopatry, 335, 426
Phoebastria irrorata, 737

- Phylogeny, 153
Pica pica, 177
 Picidae, 350
 Pied Flycatcher, 702
 Pigeon, 579
Pinus caribaea, 201
 Pizo, Marco Aurélio, and Alexandre Aleixo, Lek Behavior of the Gray-hooded Flycatcher, 726
 Plasma chemistry, 719
 Polyandry, 335
 Ponderosa Pine, 485
 Population abundance, 254
 differentiation, 1
 Population Trends of the Galápagos Penguin: Impacts of El Niño and La Niña, by P. Dee Boersma, 245
 Potassium-40 measurement, 579
 Potti, Jaime, Arrival Time From Spring Migration in Male Pied Flycatchers: Individual Consistency and Familial Resemblance, 702
 Prather, John W., A review of *Song of the Dodo: Island Biogeography in an Age of Extinction*, by David Quammen, 408
 Pre-Pleistocene Differentiation among Chat-tyrants, by Jaime García-Moreno, Peter Arcander and Jon Fjeldså, 629
 Predation, 119, 757
 Predators of Quail Eggs, and the Evidence of the Remains: Implications for Nest Predation Studies, by Miguel A. Marini and Celine Melo, 395
 Preston, Charles R., A review of *Raptors: The Birds of Prey*, by Scott Weidensaul; and *Raptors: North American Birds of Prey*, by Noel F. R. Snyder and Helen A. Snyder, 406
 Prey abundance, 79
 killing, 757
 selection, 131
 temporal variation, 112
 Primary molt, 8
 Prince William Sound, 286, 709
 Prince, P. A., see Copley, N. D., 8
 Ptilochronology, 753
Ptychoramphus aleuticus, 546

Q

- A Quantitative Analysis of Winter Distribution and Habitats of Kirtland's Warblers in the Bahamas, by J. Christopher Haney, David S. Lee and Martha Walsh-McGehee, 201
 A Quantitative Analysis of Woodpecker Drumming, by Robert D. Stark, Danielle J. Dodenhoff and Eric V. Johnson, 350

R

- Radio telemetry, 69, 456, 709
 Ralph, C. John, Steven G. Fancy and Tim D. Male, Demography of an Introduced Red-billed Leiothrix Population in Hawaii, 468
 Random variation, 574
 Rappole, J. H., see Vega, J. H., 69
 Raptors, 27, 601, 719
Raptors in Human Landscapes: Adaptations to Built and Cultivated Environments, edited by David M. Bird, Daniel E. Varland, and Juan J. Negro, reviewed by Patricia L. Kennedy, 584

- Raptors: The Birds of Prey*, by Scott Weidensaul; and
Raptors: North American Birds of Prey, by
 Noel F. R. Snyder and Helen A. Snyder, re-
 viewed by Charles R. Preston, 406
- Rare and Endangered Biota of Florida. Volume 5.*
Birds, edited by James A. Rodgers Jr., Herbert
 W. Kale II, and Henry T. Smith, reviewed by
 Glen E. Woolfenden, 191
- Ratcliffe, N., see Catry, P., 448
- Recent Geographic Trends in Neotropical Avian Re-
 search, by Kevin Winker, 764
- Recurvirostra americana*, 589
- Red Jungle Fowl, 749
- Red-billed Leiothrix, 468
- Red-faced Warbler, 512, 741
- Redhead, 62
- Red-winged Blackbirds: Decision-making and Repro-
 ductive Success*, by Les D. Beletsky and Gor-
 don H. Orians, reviewed by Ken Yasukawa, 183
- Reed, Eric T., Evan G. Cooch, R. Ian Goudie and Fred
 Cooke, Site Fidelity of Black Brant Wintering
 and Spring Staging in the Strait of Georgia,
 British Columbia, 426
- Refined Colorimetry Validates Endangered Subspecies
 of the Least Tern, by Ned K. Johnson, J. V.
 Remsen Jr. and Carla Cicero, 18
- Rejection of Artificial Parasite Eggs by Gray King-
 birds in the Bahamas, by Michael E. Baltz and
 Dirk E. Burhans, 566
- Remsen, J. V., see Johnson, N. K., 18
- Repeatability, 702
- Reproductive success, 79, 688
 timing, 373
- Resource selection, 286
- Restivo, V., see Berman, S., 574
- Reynolds, R. T., see Gavin, T. A., 556
- Ricelands, 227
- Risk-taking by Incubating Common Goldeneyes and
 Hooded Mergansers, by Mark L. Mallory, Don-
 ald K. McNicol, Russell A. Walton and Mark
 Wayland, 694
- Rissa tridactyla*, 709
- Robertson, Gregory J., Fred Cooke, R. Ian Goudie and
 W. Sean Boyd, The Timing of Pair Formation
 in Harlequin Ducks, 551
- Robertson, R. J., see Conrad, K. F., 343
- Rock Dove, 298
- Rodrigues, J., see Berman, S., 574
- Roost site, 732
- Roosting sociality, 641
- Roseate Tern, 131
- Rosenstock, Steven S., Influence of Gambel Oak on
 Breeding Birds in Ponderosa Pine Forests of
 Northern Arizona, 485
- Roth, J. D., see Gutzwiller, K. J., 519
- S
- Sandwich Tern, 131
- Santos, D. M., see Sol, D., 298
- Satellite telemetry, 172
- Satellite Tracking of Magellanic Penguin Migration,
 by David L. Stokes, P. Dee Boersma and Lloyd
 S. Davis, 376
- Savard, J. L., see Clergeau, P., 413

- Schmutz, J. A., see Hollmén, T. E., 402
- Schmutz, Joel A., and Keith A. Hobson, Geographic,
 Temporal, and Age-Specific Variation in Diets
 of Glaucous Gulls in Western Alaska, 119
- Seabird energetics, 546
- Seabird-cetacean interaction, 560
- Seabirds, 277, 709
- Sealy, S. G., see McMaster, D. G., 102
- Seasonal abundance, 227
- Sedinger, J. S., see Eichholz, M. W., 164
- Selection of Forage-Fish Schools by Murrelets and
 Tufted Puffins in Prince William Sound, Alaska,
 by William D. Ostrand, Kenneth O. Coyle,
 Gary S. Drew, John M. Maniscalco and David
 B. Irons, 286
- Senescence, 448
- Setophaga ruticilla*, 389
- A Sexually Dimorphic Learned Birdsong in The
 Northern Cardinal, by Ayako Yamaguchi, 504
- Sexual variation in foraging, 112
- Shealer, David A., Differences in Diet and Chick Pro-
 visioning Between Adult Roseate and Sandwich
 Terns in Puerto Rico, 131
- Shiny Cowbird, 566, 680
- Shorebirds, 227, 456, 589
- Short Incubation Periods of Brown-headed Cowbirds:
 How Do Cowbird Eggs Hatch Before Yellow
 Warbler Eggs?, by D. Glen McMaster and
 Spencer G. Sealy, 102
- Shrikes: A Guide to the Shrikes of the World*, by Nor-
 bert Lefranc, reviewed by Reuven Yosef, 773
- Shuford, W. David, Gary W. Page and Janet E. Kjell-
 myr, Patterns and Dynamics of Shorebird Use
 of California's Central Valley, 227
- Silva, P., see Favero, M., 112
- Silvicoltrix*, 629
- Singing Behavior of Lekking Green Hermits, by Eliz-
 abeth MacDougall-Shackleton and Heidi Har-
 bison, 149
- Site Fidelity of Black Brant Wintering and Spring
 Staging in the Strait of Georgia, British Colum-
 bia, by Eric T. Reed, Evan G. Cooch, R. Ian
 Goudie and Fred Cooke, 426
- Skeletal Development at the Time of Fledging in
 House Wrens, by Chaitali Dutta, L. Scott John-
 son, David Larkin and Luz P. Mangurian, 568
- Skeleton, 568
- Smith, J. M. N., see Ward, D., 1
- Smith, K. G., see Barber, P. M., 512
- Smith, K. G., see Bider, C. J., 410
- Smith, K. G., see Woolfenden, G. E., 587
- Smith, Kimberly G., Briefly Noted Book Reviews,
 193, 410, 776
- Smith, L. M., see Davis, C. A., 266
- Smith, Robert, Michael Hamas, Matthew Dallman and
 David Ewert, Spatial Variation in Foraging of
 the Black-throated Green Warbler Along the
 Shoreline of Northern Lake Huron, 474
- Smith, T. B., see Larison, B., 93
- Sol, Daniel, David M. Santos, Josep Garcia and Mar-
 iano Cuadrado, Competition for Food in Urban
 Pigeons: The Cost of Being Juvenile, 298
- Song, 350
- Song of the Dodo: Island Biogeography in an Age of*

- Extinction*, by David Quammen, reviewed by John W. Prather, 408
- Song production, 149
- Song Sparrow Males Use Female-Typical Vocalizations in Fall, by Michelle M. Elekonich, 145
- Song Sparrows vs. Cowbird Brood Parasites: Impacts of Forest Structure and Nest-Site Selection, by Brenda Larison, Stephen A. Laymon, Pamela L. Williams and Thomas B. Smith, 93
- Songs, 145
- Sonneborn, D. W., see Sykes, P. W., 162
- Sordahl, Tex A., A review of *The Oystercatcher: From Individuals to Populations*, edited by John D. Goss-Custard, 407
- South Georgia, 8
- Southern Fulmars Molt Their Primary Feathers While Incubating, by Christophe Barbraud and Olivier Chastel, 563
- Southern Illinois Birds: An Annotated List and Site Guide*, by W. Douglas Robinson, reviewed by Michael Mlodinow, 409
- Spatial Variation in Foraging of the Black-throated Green Warbler Along the Shoreline of Northern Lake Huron, by Robert Smith, Michael Hamas, Matthew Dallman and David Ewert, 474
- Speciation, 629
- Species and Subspecies Limits in Least Terns, by Barbara W. Massey, 180
- Spendelow, J. A., see Nisbet, I. C. T., 305
- Sperm competition, 141
- Spheniscus magellanicus*, 376
- mendiculus*, 245, 277
- Spizella pusilla*, 663
- Spring staging, 426
- Spring Stopover Ecology of Migrant Western Sandpipers, by Nils Warnock and Mary Anne Bishop, 456
- Stable isotopes, 119
- Stark, Robert D., Danielle J. Dodenhoff and Eric V. Johnson, A Quantitative Analysis of Woodpecker Drumming, 350
- Starvation, 298
- Status and Trends of the Ashy Storm-petrel on Southeast Farallon Island, California, Based Upon Capture-Recapture Analyses, by William J. Sydeman, Nadav Nur, Elizabeth B. McLaren and Gerard J. McChesney, 438
- Steadman, David W., and Holly B. Freifeld, Distribution, Relative Abundance, and Habitat Relationships of Landbirds in the Vava'u Group, Kingdom of Tonga, 609
- Stercorarius parasiticus*, 448
- Sterna*, 180
- antillarum*, 18
- dougallii*, 131
- hirundo*, 528
- sandvicensis*, 131
- striata*, 560
- Stevens, L. E., see Brown, B. T., 745
- Stokes, David L., P. Dee Boersma and Lloyd S. Davis, Satellite Tracking of Magellanic Penguin Migration, 376
- Stomach analysis, 112
- Stopover ecology, 373
- Strix occidentalis*, 79
- Strix occidentalis lucida*, 732
- Subspecies, 180
- Sullivan, K. A., see Donnelly, R. E., 385
- Survey methods, 641
- Suryan, R. M., see Ostrand, W. D., 709
- Sydeman, W. J., see Hodum, P. J., 546
- Sydeman, William J., Nadav Nur, Elizabeth B. McLaren and Gerard J. McChesney, Status and Trends of the Ashy Storm-petrel on Southeast Farallon Island, California, Based Upon Capture-Recapture Analyses, 438
- Sykes, Paul W., and David W. Sonneborn, First Breeding Records of Whooper Swan and Brambling in North America at Attu Island, Alaska, 162
- Systematics, 27
- T**
- Taxonomy, 18, 27
- Tella, J. L., see Dobado-Berrios, P. M., 719
- Territoriality, 145, 541
- Testosterone, 749
- The Diet of the Antarctic Shag During Summer at Nelson Island, Antarctica, by Marco Favero, Ricardo Casaux, Patricia Silva, Esteban Barrera-Oro and Nestor Coria, 112
- The Golden Eagle*, by Jeff Watson, reviewed by Michael W. Collopy, 774
- The Incidence of Nonbreeding by Adult Great Skuas and Parasitic Jaegers from Foula, Shetland, by Paulo Catry, Richard A. Phillips, Keith C. Hamer, Norman Ratcliffe and Robert W. Furness, 448
- The Influence of Female Age, Body Mass, and Ambient Conditions on Redhead Incubation Constancy, by Tina Yerkes, 62
- The Oystercatcher: From Individuals to Populations*, edited by John D. Goss-Custard, reviewed by Tex A. Sordahl, 407
- The Raven, A Natural History in Britain and Ireland*, by Derek Ratcliffe, reviewed by John M. Marzluff, 185
- The Red-winged Blackbird: The Biology of a Strongly Polygynous Songbird*, by Les Beletsky, reviewed by Ken Yasukawa, 183
- The Relationship Between Intra- and Interspecific Brood Amalgamation in Waterfowl, by Guy Beauchamp, 153
- The Snow Geese of La Perouse Bay: Natural Selection in the Wild*, by Fred Cooke, Robert F. Rockwell, and David B. Lank, reviewed by Thomas D. Nudds, 585
- The Timing of Pair Formation in Harlequin Ducks, by Gregory J. Robertson, Fred Cooke, R. Ian Goudie and W. Sean Boyd, 551
- The Zebra Finch*, by Richard A. Zann, reviewed by Richard F. Johnston, 187
- Thermoregulatory Responses of Bridled and Juniper Titmice to High Temperature, by Wesley W. Weathers and Erick Greene, 365
- Thick-billed Murre, 172
- Thompson, F. R., see Burhans, D. E., 663
- Thompson, F. R., see Dearborn, D. C., 326

- Timing of Pair and Extra-Pair Copulations in the Northern Fulmar, by F. M. Hunter, 141
Tonga, 609
Toxostoma rufum, 535
Treecreepers, 174
Tricolored Blackbird Itinerant Breeding in California, by William J. Hamilton III, 218
Troglodytes aedon, 568
Tubaro, Pablo Luis, and Bettina Mahler, Acoustic Frequencies and Body Mass in New World Doves, 54
Tufted Puffins, 286
Tyrannidae, 726
Tyrannus dominicensis, 566

U

- Ueta, Mutsuyuki, Azure-winged Magpies Avoid Nest Predation By Nesting Near a Japanese Lesser Sparrowhawk's Nest, 400
Urban ecosystem, 413
pigeons, 298
Urbanization, 601
Uria aalge, 172
lomvia, 172

V

- Valdez, R., see Young, K. E., 732
VanderWerf, Eric A., Breeding Biology and Territoriality of the Hawaii Creeper, 541
Variation in Foraging Behavior Among Nesting Stages of Female Red-faced Warblers, by Robert C. Dobbs and Thomas E. Martin, 741
Variations in Growth of Roseate Tern Chicks: II. Early Growth as an Index of Parental Quality, by Ian C. T. Nisbet, Jeffrey A. Spindel, Jeff S. Hatfield, James M. Zingo and Greg A. Gough, 305
Vega, J. H., J. H. Rappole, W. J. McShea and C. A. Haas, Wood Thrush Postfledging Movements and Habitat Use in Northern Virginia, 69
Villard, M., see Hobson, K. A., 389
Visser, G. H., see Hodum, P. J., 546
Vocal learning, 504

W

- Walsh-McGehee, M., see Haney, J. C., 201
Walton, R. A., see Mallory, M. L., 694
Ward, David, and James N. M. Smith, Morphological Differentiation of Brown-headed Cowbirds in the Okanagan Valley, British Columbia, 1
Ward, James P., R. J. Gutiérrez and Barry R. Noon, Habitat Selection by Northern Spotted Owls: The Consequences of Prey Selection and Distribution, 79
Warnock, Nils, and Mary Anne Bishop, Spring Stop-over Ecology of Migrant Western Sandpipers, 456
Warnock, Nils, Susan M. Haig and Lewis W. Oring, Monitoring Species Richness and Abundance of Shorebirds in the Western Great Basin, 589

- Water Economy of Granivorous Birds: California House Finches, by Richard E. MacMillen and David S. Hinds, 493
Waterfowl, 153
Waved Albatross, 737
Wayland, M., see Mallory, M. L., 694
Weathers, W. W., see Hodum, P. J., 546
Weathers, Wesley W., and Erick Greene, Thermoregulatory Responses of Bridled and Juniper Titmice to High Temperature, 365
Western Sandpiper, 456
Wetlands, 227
White-fronted Tern, 560
WHSRN site, 589
Wiedenfeld, David A., A review of *Atlas of the Breeding Birds of Maryland and the District of Columbia*, edited by Chandler S. Robbins and Erik A. T. Blom, 773
Williams, P. L., see Larison, B., 93
Wilson, Gina R., Margaret C. Brittingham and Laurie J. Goodrich, How Well Do Artificial Nests Estimate Success of Real Nests?, 357
Wilson, R. Randy, and Robert J. Cooper, Acadian Flycatcher Nest Placement: Does Placement Influence Reproductive Success?, 673
Winker, Kevin, Recent Geographic Trends in Neotropical Avian Research, 764
Winter habitats, 201
Winter Participation by Neotropical Migrant and Resident Birds in Mixed-species Flocks in Northeastern Mexico, by Wendy K. Gram, 44
Wintering, 426
Wood Duck, 688
Wood Thrush, 357
Wood Thrush Postfledging Movements and Habitat Use in Northern Virginia, by J. H. Vega Rivera, J. H. Rappole, W. J. McShea and C. A. Haas, 69
Woodpeckers, 350
Woelfenden, G. E., see Grubb, T. C., 753
Woelfenden, Glen E., and Kimberly G. Smith, Briefly Noted Book Reviews, 587
Woelfenden, Glen E., A review of *Rare and Endangered Biota of Florida. Volume 5. Birds*, edited by James A. Rodgers Jr., Herbert W. Kale II, and Henry T. Smith, 191
Wyoming, 519

Y

- Yamaguchi, Ayako, A Sexually Dimorphic Learned Birdsong in The Northern Cardinal, 504
Yasukawa, Ken, A review of *The Red-winged Blackbird: The Biology of a Strongly Polygynous Songbird*, by Les Beletsky; and *Red-winged Blackbirds: Decision-making and Reproductive Success*, by Les D. Beletsky and Gordon H. Orians, 183
Yates, T. A., see Brown, B. T., 745
Yellow Warbler, 102
Yerkes, Tina, The Influence of Female Age, Body Mass, and Ambient Conditions on Redhead Incubation Constancy, 62

- Yosef, Reuven, A review of *Shrikes: A Guide to the Shrikes of the World*, by Norbert Lefranc, 773
- Young, E. C., Dispersal From Natal Territories and the Origin of Cooperatively Polyandrous Breeding Groups in the Brown Skua, 335
- Young, Kendal E., Raul Valdez, Phillip J. Zwank and William R. Gould, Density and Roost Site Char-

acteristics of Spotted Owls in the Sierra Madre Occidental, Chihuahua, Mexico, 732

Z

- Zingo, J. M., see Nisbet, I. C. T., 305
- Zuk, M., see Johnsen, T. S., 749
- Zwank, P. J., see Young, K. E., 732

